

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP2004/007859

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04L12/56 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/03379 A (BOLINTH EDGAR ; KERN RALF (DE); SCHWARK UWE (DE); SIEMENS AG (DE)) 11 January 2001 (2001-01-11) abstract; figure 1 page 1, line 6 - line 27 page 2, line 11 - page 3, line 33 page 4, line 21 - page 7, line 10	1-16
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 21, 3 August 2001 (2001-08-03) & JP 2001 103570 A (TOSHIBA CORP), 13 April 2001 (2001-04-13) abstract ----- -/--	1,3,4, 8-10, 14-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

14 September 2004

Date of mailing of the international search report

04/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Figiel, B

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP2004/007859

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG W ET AL: "On Improving the Performance of Bluetooth Networks THROUGH DYNAMIC ROLE MANAGEMENT" May 2001 (2001-05), , XP002198269 paragraph '0001! paragraph '02.2! paragraph '0003! -----	1,14-16
P,X	EP 1 324 540 A (TOKYO SHIBAURA ELECTRIC CO) 2 July 2003 (2003-07-02) abstract paragraph '0020! - paragraph '0032! -----	1,14-16
A	BRAY J ET AL: "BLUETOOTH - Connect Without Cables , PASSAGE" BLUETOOTH CONNECT WITHOUT CABLES, XX, XX, 2001, pages 42-45,52, XP002243377 the whole document -----	1-16

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/007859

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0103379	A	11-01-2001	DE	19930423 A1	18-01-2001
			AU	6555600 A	22-01-2001
			WO	0103379 A1	11-01-2001
JP 2001103570	A	13-04-2001	TW	494649 B	11-07-2002
EP 1324540	A	02-07-2003	JP	2003198567 A	11-07-2003
			JP	2003273883 A	26-09-2003
			CN	1430341 A	16-07-2003
			EP	1324540 A2	02-07-2003
			US	2003124979 A1	03-07-2003